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Ser 1813BD/00618  
22 FEB 1991

Mr. Mark Malinowski  
California Department of Health Services  
Toxic Substances Control Division  
Region 2  
700 Heinz Avenue, Building F, Suite 200  
Berkeley, CA 94710

Mr. Malinowski:

Enclosed is the Monthly Status Report for the month of January on the Remedial Investigation/Feasibility Study at the Naval Air Station, Alameda. Also enclosed are the minutes of the December 1990 Progress Review Meeting.

Thank you for your continued guidance and involvement in the IR program. Please direct any questions to Commander, Western Division, Naval Facilities Engineering Command (Attn: Ms. Bella G. Dizon, Code 1813BD, (415) 244-2551 or 2564).

Sincerely,

**original signed by:**

RICHARD SERAYDARIAN  
Head, Installation Restoration Section

Encl:

- (1) Monthly Status Report - January 1991
- (2) Minutes of December Progress Review Meeting

Copy to: (w/ encl)  
NAS Alameda (Attn: Randy Cate)  
COMNAVBASE San Francisco (Attn: Randy Friedman)  
Regional Water Quality Control Board (Attn: Rico Duazo)  
National Oceanic & Atmospheric Administration (Attn: Chip Demarest)  
Bay Area Air Quality Management District (Attn: Scott Lutz/Brian Jennison)  
Department of the Interior (Attn: William C. Allan)  
California Department of Fish and Game (Attn: Mike Rugg)  
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1813, 1813BD, 1813EG, **Admin. Record**  
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MONTHLY STATUS REPORT  
JANUARY 1991  
NAS ALAMEDA  
PHASES 5, 6, 2B, 3

1. Progress During the Reporting Period:

- Phase 5, RI/FS (SWAT) (CT0-85)

Development of the twelve monitoring wells was completed on January 30, 1991. Development water was contained in 41 drums. The drums were transported to a central storage location except for drums from locations M-10, M-103, and M-105.

During the development of well M-105B in December 1990, formation sand and filter pack material were recovered from the well. The well was damaged and had to be redrilled. The regulators were informed of the problem and gave verbal permission to proceed with redrilling. A letter was sent on January 16, 1991 to the regulators, PRC, WDC and the Navy. Well M-105B was redrilled from 1/22/91 through 1/25/91 by Water Development Corporation (WDC). WDC used a Mobile B-53 auger drill rig. The well was renamed M-105Br. 14 drums were used to collect the cuttings and decontamination water from the drilling operation. Well M-105Br was completed on 1/30/91.

J.M. Montgomery began reviewing data for the draft report. All field work was performed by J. M. Montgomery. Field oversight was conducted by PRC on January 4 and 29, 1991.

- Phase 5 AND 6, RI/FS (SWAT) (CT0-107)

Negotiations were completed in December 1990. The order of services was issued to PRC by the Navy on December 28, 1990. An authorization to proceed was issued by PRC to J. M. Montgomery on January 24, 1991. Field work has not been initiated.

ENCL. 1

- **WELL DECOMMISSIONING (CTO-95)**

A draft work plan was prepared for well decommissioning and forwarded to the Navy on January 17, 1991. The Navy provided this work plan to the Department of Health Services on January 25, 1991. It was recommended that all existing ground-water monitoring wells at the 1943-1956 Disposal Area and West Beach Landfill be abandoned by perforating the casing and pressure grouting.

- **Phase 2B AND 3, RI/FS (CTO-121)**

Preparation of the work plan and cost estimate is in progress. All work, except the air monitoring program, will be subcontracted to J. M. Montgomery. PRC will be conducting the air monitoring program.

**2. Reports and Meetings:**

- **An RI/FS progress review meeting for NAS Alameda was conducted on 25 January 1991. Reports submitted by PRC to the Navy are listed below:**

- **Phase 5, RI/FS (SWAT) (CTO-85)**

None

- **Phase 5 AND 6, RI/FS (SWAT) (CTO-107)**

None

- **WELL DECOMMISSIONING (CTO-95)**

The Well Decommissioning report was submitted to the Navy on January 17, 1991.

- **Phase 2B AND 3, RI/FS (CTO-121)**

None

**3. Problems Encountered and Resolutions:**

- Phase 5, RI/FS (SWAT) (CT0-85)

Well development began on 1/29/91 for well M-105Br and was completed on 1/30/91. When WDC began development of the well the 10-foot bailer got stuck between depths of 22 and 24 feet below ground level. WDC had the bailer cut down to a length of 3.5 feet, and it fit down the well without problems.

- Phase 5 AND 6, RI/FS (SWAT) (CT0-107)

None

- WELL DECOMMISSIONING (CTO-95)

None

- Phase 2B AND 3, RI/FS (CTO-121)

None

**4. Reports Scheduled for February Submittal:**

- Phase 5, RI/FS (SWAT) (CT0-85)

None

- Phase 5 AND 6, RI/FS (SWAT) (CT0-107)

Health and Safety Plan

- WELL DECOMMISSIONING (CTO-95)

Pending regulatory review of the Draft Work Plan, a Final Work Plan and a Health and Safety Plan will be prepared.

- Phase 2B AND 3, RI/FS (CTO-121)

Work Plan and Cost Estimate.

**5. Planned Field Activities for January 1991:**

- **Phase 5, RI/FS (SWAT) (CT0-85)**

The locations and elevations of the ground-water monitoring wells will be surveyed in February. Field data and analytical data will be analyzed. Preparation of the report will continue.

- **Phase 5 AND 6, RI/FS (SWAT) (CT0-107)**

Site reconnaissance activities will be initiated by J. M. Montgomery. Additionally, J. M. Montgomery will complete the Health and Safety Plan and procure subcontractors. PRC will continue evaluating the hydrogeology at the landfills. The efficiency of the well development technique used to develop ground-water monitoring wells for CTO 85 will be evaluated.

- **WELL DECOMMISSIONING (CTO-95)**

No field activities planned.

- **Phase 2B AND 3, RI/FS (CTO-121)**

No field activities planned.

INSTALLATION RESTORATION PROGRAM  
MONTHLY STATUS REPORT  
JANUARY 1991  
PHASE 2A

1. Progress During the Reporting Period

- o Drum labelling activities were performed at the Building 547 site where all waste barrels are currently being stored. Only 39 waste barrels required hazardous waste labels. Four hazardous waste labels were placed on drums from the Phase 1 exploratory boring program at the Pistol Range Area. Phase 2A field activities for January 1991 are summarized in Table 1. The field activity status for January 1991 is provided on Table 2. No field activities are planned for February 1991.

Removals:

- o None

2. Meetings and Reports

- o The monthly progress report for December 1990 was submitted on January 10, 1991. A monthly progress review meeting was held on January 25, 1991 at the California Department of Health Services in Emeryville. Agenda for this meeting focused on several issues, including those associated with the remainder of the RI/FS work at the base and environmental sampling in the Oakland Estuary.
- o The following reports were submitted during January 1991:

<u>Report</u>	<u>Date of Submittal</u>
Revised Phase 2A Analytical Results for Site 3, Area 97, and Site 16, Cans C-2 Area	January 29, 1991

3. Problems Encountered and Resolutions:

- o Two revised analytical reports (Laboratory Project (LP) Nos 9258 and 9233) for soil samples obtained at Site 3, Area 97, and Site 16, Cans C-2 Area, were submitted. Volatile organics analytical results for iron and lead on Sample ID No. MW97-2-14.5 and Metals analytical results for iron and lead on Sample ID No. MW97-IR-11.0 were corrected on LP No. 9258. Analytical results for both Pesticide/PCBs and Total Cyanide analyses for Sample No. BC2-4R-10.0 were also corrected on LP No. 9233. Revised summary tables of the analytical results for these particular sample locations were prepared to incorporate these revisions. These revised analytical results and summary tables were inserted into the laboratory reports in place of the original analytical results for these sample locations.

4. Reports Scheduled for February Submittal:

o None

PROGRESS REVIEW MEETING  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
NAVAL AIR STATION ALAMEDA

EMERYVILLE, CALIFORNIA  
25 JANUARY 1991, 10:00 AM

<u>Personnel Present</u>	<u>Organization</u>	<u>Phone Number</u>
Ernie Galang	WESTDIV	(415) 244-2560
Steve Newton	J. M. Montgomery	(415) 975-3485
Mark Malinowski	DHS, Region 2	(415) 540-3816
Rico Duazo	RWQCB	(415) 464-0837
Mike Rugg	Fish and Game	(707) 944-5523
Jeff Johnson	PRC	(916) 852-8300
Kirk Switzer	PRC	(916) 852-8300
Tim Bodkin	Canonic	(415) 543-8012
Bella Dizon	WESTDIV	(415) 244-2564
Randy Cate	NAS Alameda	(415) 263-3716

Minutes

Mark Malinowski started the meeting by informing the group that the Army Corp of Engineers (COE) is dredging the estuary. Sampling locations have been established. The Department of Health Services (DHS) wants to incorporate these sediment samples into the RI/FS. Battelle is doing some sampling and monitoring for the COE. High readings on instruments measuring organic concentrations were obtained, especially from sample point IC25. Additionally, the Port of Oakland may be dredged in March 1991, and the collection of samples before dredging may be important.

Item 5 on agenda Environmental Sampling

The Navy reiterated their August 1990 request to Fish and Game for written comments on the proposed environmental sampling plan. The DHS wants Fish and Game to make specific recommendations for the Seaplane Lagoon and estuary for incorporation into the next CTO for Phase 4 of the RI/FS. The Fish and Game has not yet reviewed the sampling plan. Mike Rugg said that he couldn't give recommendations or comments at the meeting. However, he said the program that was submitted was not detailed enough, especially for the Seaplane Lagoon. Fish and Game said they will comment on the sampling plan by next week (February 1, 1991).



The information collected during Phase 4 will be used for dredge disposal purposes and analyzing environmental impacts. Mark Malinowski said the level of detail at Hunters Point is still in question. At the Seaplane Lagoon, NAS Alameda, sampling every 100 feet may be necessary. Fish and Game indicated that separate chemical and biological analyses are necessary for the estuary and the Seaplane Lagoon. The DHS proposed phased sampling.

The Navy said that Phase 4 of the RI/FS will be issued in the 2nd quarter of 1991. This Phase includes sampling in the Seaplane Lagoon and estuary. The Navy wants guidance from Fish and Game, and asked if a benthic study is necessary after a chemical study. Fish and Game said the scope of work will be reviewed. The scope of work is included in Canonie's Sampling Plan, Volume 1, dated February 1990.

The DHS asked the Navy for the time frame on completing the Ecological Sampling Work Plan. The Navy wants to wait until the Phase 4 results are in. The DHS wants the environmental sampling program (ecological assessment) established on-site and off-site. The Navy said they would get back to the DHS with the schedule.

#### Item 1 on agenda. Status Report - RI Field Work

##### Phase 2A

Canonie completed Phase 2A last month. However, some barrel labeling is still being conducted this week. Reports have been submitted to the Navy and DHS. The Air SWAT report was submitted by Canonie to the Air Board. The Navy included environmental work for Building 360 in Phase 2B. The DHS wants PRC to look for cracks in troughs in Building 360 to investigate possible leakage of contaminants. Engineering plans of the Building 360 need to be reviewed before the investigation begins. These plans can be obtained from Bill Featherstan at 263-6292. The DHS is concerned about soil pH. If the pH is low, a ground-water treatment system may be required.

##### Phase 5

J. M. Montgomery completed field activities for CTO 85. A mud-rotary rig was used to install the 12 ground-water monitoring wells. Well development proceeded satisfactorily as far as pH and conductivity measurements go. However, turbidity has been a problem. As much as 300 gallons of water per well have been removed to reduce turbidity. The DHS asked JMM how many

wells are turbid. JMM indicated that about half of the wells might be turbid. Due to poor construction, monitoring well M105B is being reconstructed at the drillers expense.

The chemical analyses for soil samples collected from the borings are in. Hydrocarbon concentrations (in the C9-C22 range) as high as 500 parts per million were detected from the Least Tern nesting area.

Shallow monitoring wells approved under CTO 107 will be installed with a hollow-stem auger rig to reduce turbidity problems. Alternative methods to reduce turbidity in future wells, such as using a percussion hammer, altering filter pack design, and using a smaller screen slot size, were discussed, but no conclusions were made. JMM is preparing contracts for the lab and drilling contractor to be used for CTO 107. The proposed subcontractors will be presented to PRC next week.

Item 2 on agenda. Consistency Determination (BCDC)

NAS Alameda is still working with the Bay Conservation and Development Commission (BCDC) to obtain approval to install ground-water monitoring wells at locations M-15 and M-19. The BCDC wants more information. Additional information will be sent by the Navy to the BCDC by January 30, 1991. The DHS requested that NAS Alameda contact the BCDC next week.

Item 3 on agenda. Building 5 Testing

NAS Alameda collected 3 samples at Building 5 last week. They were sent to Sequoia Lab for analyses. Only pH will be analyzed. Results should be in today. The DHS is concerned that battery acid may have contaminated soil in the area.

Item 6 on agenda. PHEE

The preliminary Public Health Environmental Evaluation (PHEE) was not in the RI/FS schedule. The risk assessment can be done during the course of the project and the final PHEE should be prepared at the same time the RI report is prepared. The plan is there, but it needs to be implemented. The Navy said the scope of work may be prepared soon. The PHEE may be implemented under a separate CTO.

#### Item 4 on agenda. Abandonment of Existing Wells at Landfills

PRC delivered a Well Decommissioning Plan to the Navy on January 17, 1991. The Navy provided copies of this plan to the DHS and the RWQCB during the meeting today. A copy will also be sent to the Alameda County Flood Control and Water Conservation District (ACFCWCD). The Navy will be sending a transmittal letter to the DHS, RWQCB, ACFCWCD requesting comments. The DHS said they would review the work plan and provide comments by 15 February 1991.

#### Additional Discussions

NAS Alameda indicated that a TV camera would scan areas in the sewer line where breakage occurred from the Loma Prieta earthquake. The DHS considers the broken areas as a possible source of contaminants. Areas where leakage occurs need to be sampled. If sewer line work is required near RI sites, borings may have to be drilled.

Information pertaining to the UST work performed at NAS Alameda has been sent to the DHS by the Navy. The DHS has not yet received this information. Additionally, The Navy said that the plan for the sewer line has been completed.

NAS Alameda indicated that the industrial waste water lines are tied into the sanitary sewer lines after the main pump station. In the early 1970s, industrial waste water was discharged through the storm sewer into the estuary. The treatment plants and collection system were built in the 1970s. The DHS considers all lines as possible point sources.

A site visit to NAS Alameda and the next progress review meeting was tentatively scheduled for 26 February 1991. The meeting was adjourned at 12:15 pm.

ATTACHMENTS (3)

TABLE 1

PHASE 2A FIELD ACTIVITIES FOR JANUARY 1991  
NAS ALAMEDA RI/FS

<u>Site Name</u>	<u>Soil Gas Surveying</u>	<u>Surface Soil Sampling</u>	<u>Soil Borings</u>	<u>Well Installation</u>	<u>Well Development</u>	<u>Well Sampling</u>	<u>Surveying</u>	<u>Waste Barrel Handling/ Labelling</u>	<u>Ground Water Levels</u>
Building 360	-	-	-	-	-	-	-	-	-
Building 547	-	-	-	-	-	-	-	x	-
Yard D-13	-	-	-	-	-	-	-	-	-
Building 410	-	-	-	-	-	-	-	-	-
Building 530	-	-	-	-	-	-	-	-	-
Oil Refinery	-	-	-	-	-	-	-	-	-
Cans C-2 Area	-	-	-	-	-	-	-	-	-
Area 97	-	-	-	-	-	-	-	-	-

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Notes:

1. "-" denotes no activity.
2. "x" denotes activity.

TABLE 2

STATUS OF PHASE 2A FIELD ACTIVITIES AS OF JANUARY 31, 1991  
NAS ALAMEDA RI/FS

<u>Site Name</u>	<u>Soil Gas Survey</u>		<u>Surface Soil Sampling</u>		<u>Soil Borings</u>		<u>Well Installation</u>	
	<u>Planned</u>	<u>Completed</u>	<u>Planned</u>	<u>Completed</u>	<u>Planned</u>	<u>Completed</u>	<u>Planned</u>	<u>Completed</u>
Building 360	0	0	30	0	5	5	4	4
Building 547	72	62	0	0	5	5	5	5
Yard D-13	0	0	0	0	12	12	4	4
Building 410	0	0	0	0	5	5	4	4
Building 530	0	0	0	0	0	0	3	3
Oil Refinery	0	0	0	0	22	22	5	5
Cans C-2 Area	0	0	55	55	6	6	3	3
Area 97	137	121	0	0	0	0	3	3
Total	209	183	85	55	55	55	31	31

TABLE 2

STATUS OF PHASE 2A FIELD ACTIVITIES AS OF JANUARY 31, 1991  
 NAS ALAMEDA RI/FS  
 (Continued)

<u>Site Name</u>	<u>Water Sampling</u>		<u>Surveying</u>		<u>Ground Water Levels</u>	
	<u>Planned</u>	<u>Completed</u>	<u>Planned</u>	<u>Completed</u>	<u>Planned</u>	<u>Completed</u>
Building 360	4	4	9	9	4	4
Building 547	5	5	72	72	5	5
Yard D-13	4	4	16	16	4	4
Building 410	4	4	9	9	4	4
Building 530	3	3	3	3	3	3
Oil Refinery	5	6	27	27	6	6
Cans C-2 Area	4	3	64	64	3	3
Area 97	3	3	124	124	3	3
Total	32	32	324	324	32	32

## Notes:

1. Surveying includes soil gas survey points, surface sampling points, borings, and monitoring wells.
2. Sixty-two soil gas survey points were only completed at Building 547 during the Phase 2A field work to cover the planned grid area shown in Volume 1, NAS Alameda RI/FS Sampling Plan. Only 121 points were completed at Area 97 because of existing buildings along the grid lines.
3. The proposed thirty surface soil samples from the crawlspace underneath Building 360 have not been collected because sampling locations are undergoing redesignation.
4. An existing monitoring well at the Cans C-2 Area was not sampled because of the lack of background information on the well. Existing monitoring well, B-14 (MW-1), installed by a previous contractor at the Oil Refinery site, was sampled on October 16, 1990, in substitution for the existing Cans C-2 well. The ground water level was also measured at MW-1.

TABLE 3

## JANUARY 1991 NAS ALAMEDA MONTHLY PROGRESS REVIEW

<u>Date</u>	<u>Location</u>	<u>Attendees/Affiliations</u>	<u>Meeting Topics</u>
January 25, 1991	California Dept. of Health Services Emeryville, CA	Mark Malinowski/DHS Randy Cate/NAS Alameda Ernie Galang/WESTDIV Kirk Switzer/PRC Jeff Johnson/PRC Mike Rugg/ CA Dept. Fish and Game Steve Newton/JMM Bella G. Dizon/WESTDIV Timothy G. Bodkin/Canonie Rico Duazo/RWQCB	Status Report - RI Field Work Phase 2A Phase 5 (SWAT) ESAP Meeting Results Consistency Determination (BCDC) Building 5 Testing Abandonment of Existing Wells at Landfills Environmental Sampling Public Health and Environmental Evaluation (PHEE) Plan

# ATTENDANCE LIST

## PROGRESS REVIEW MEETING REMEDIAL INVESTIGATION/FEASIBILITY STUDY NAVAL AIR STATION ALAMEDA

JANUARY 25, 1991

NAME	ORGANIZATION	PHONE NO.
ERNIE GALANG	WEST DIV	244-2560
STEVE NEWTON	JMM	975-3485
Mark Malinowski	DHS-Rcy 2	540-3816
RICO DUARTE	EMRCE	464-0837
MIKE RUGG	PSN+GAME	(707) 944-5523
Jeff Johnson	PRC	(916) 852-8300
Kirk Switzer	PRC	(916) 852-8300
TIM REDKIN	CANDONIE	(415) 543-8072
BELLA DIZON	WEST DIV	(415) 244-2564
Randy Cate	NAS Alameda	(415) 263-3716